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Figure 1

hVNO-R1 amino acid sequence (long form)  
(translated using first in-frame ATG)

MLKLVIIENMAEIMLFSLDLLLFSTDILCFNFPSKMIKLPGFITIQIFFY  
PQASFGISANTILLLFHIFTFVFSHRSKSIDMIISHLSLIHILLFTQAI  
LVSLDFFGQSNTQDDLRYKVIVFLNKVMRGLSICTPCLLSVLQAIISPSI  
FSLAKLKHPASASHILGFFLFSWVLNMFIVFCCTLRPPVKRGQSSVCH  
TALFLFAHELHPQETVFHTNDFEGCHLYRVHGPLKRLHGDYFIQTIRGYL  
SAFTQPACPRVSPVKRASQAILLVSVFVFTYWVDFTFSFSGGVTWINDSL  
LVWLQVIVANSYAAISPLMLIYADNQIFKTLQMLWFKYLSPPKLMLKFNR  
QCGSTKK

Figure 2

hVNO-R1 amino acid sequence (short form)  
(translated using second in-frame ATG)

MAEIMLFSLDLLLFSTDILCFNFPSKMIKLPGFITIQIFFYPQASFGISA  
NTILLLFHIFTFVFSHRSKSIDMIISHLSLIHILLFTQAILVSLDFFGS  
QNTQDDLRYKVIVFLNKVMRGLSICTPCLLSVLQAIISPSIFSLAKLKHP  
SASHILGFFLFSWVLNMFIVFCCTLRPPVKRGQSSVCHTALFLFAHE  
LHPQETVFHTNDFEGCHLYRVHGPLKRLHGDYFIQTIRGYLSAFTQPACP  
RVSPVKRASQAILLVSVFVFTYWVDFTFSFSGGVTWINDSLLVWLQVIVA  
NSYAAISPLMLIYADNQIFKTLQMLWFKYLSPPKLMLKFNRQCGSTKK

Figure 3



hVNO-R1 nucleotide sequence (clone pp166)  
 (alternative sequence with a natural null mutation,  
 useful for diagnostic application)

1	ATGTTGAAAT	TGGTTATTAT	TGAGAACATG	GCAGAAATTA	TGCTATTCTC
51	ATTAGATCTC	TTGCTTTTCT	CCACAGATAT	CCTTTGCTTT	AATTTTCCTT
101	CTAAGATGAT	CAAACCTCCT	GGTTTTATTA	CCATATAAAT	CTTCTTTTAT
151	CCACAAGCCA	GCTTTGGAAT	TTCAGCAAAC	ACCATCCTTC	TTCTTTTCCA
201	CATCTTCACC	TTTGTTTTCA	GTCACAGGTC	TAAGTCCATT	GACATGATAA
251	TTAGTCACCT	GTCTCTCATC	CACATACTGC	TGCTCTTCAC	TCAGGCAATA
301	TTGGTGTCC	TAGACTTCTT	TGGTTCACAG	AATACTCAGG	ATGATCTTAG
351	GTATAAGGTC	ATTGTCTTTT	TAAACAAGGT	GATGAGGGGC	CTCTCCATCT
401	GCACCCCTG	CCTCCTGAGT	GTGCTCCAGG	CCATCATCAG	CCCCAGCATC
451	TTCTCCTTGG	CAAAGCTCAA	ACATCCTTCT	GCAAGTCACA	TCTTAGGATT
501	CTTCCTTTTC	TCATGGGTCC	TCAACATGTT	CATTGGTGTA	ATCTTCTGCT
551	GTACACTGCG	GCTACCCCCA	GTGAAACGGG	GCCAGTCTTC	TGTTTGTTCAT
601	ACAGCACTGT	TCCTTTTTTG	CCATGAGCTA	CACCCACAGG	AGACTGTTTT
651	TCACACTAAT	GACTTTGAGG	GATGTCACCT	TTATAGGGTT	CATGGTCCTC
701	TCAAGAGGCT	ACATGGTGAT	TATTTTATAC	AGACAATAAG	AGGCTATCTC
751	AGTGCCTTCA	CACAGCCAGC	CTGTCCCCGA	GTCTCACCAG	TGAAAAGAGC
801	CTCCCAGGCT	ATCTTACTGC	TGGTGAGTTT	TGTCTTCACA	TACTGGGTGG
851	ACTTTACGTT	CTCATTTTCA	GGAGGTGTGA	CATGGATAAA	TGATTCTCTG
901	CTAGTGTGGC	TCCAGGTTAT	TGTGGCCAAT	AGCTATGCCG	CAATTAGTCC
951	TTTGATGCTA	ATTTATGCTG	ATAACCAAAT	ATTCAAGACT	CTGCAAATGT
1001	TATGGTTTAA	ATATTTGTCT	CCTCCAAAGC	TCATGTTGAA	ATTTAATCGC
1051	CAATGTGGCA	GTACTAAGAA	GTGATGA		

Figure 5